

Philips Telecommunication Review

Index to Volumes 21 to 30

years of publication

Volume 21	1959/60
22	1960/61
23	1961/62
24	1963
25	1964/65
26	1966/67
27	1967/68
28	1968/69
29	1970/71
30	1971/72

U. of ILL. LIBRARY

JAN 26 1973

CHICAGO CIRCLE

Author index

- Vol. 30, 147 AARTS, J. P. A., The professional communications receiver RO 150.
- 30, 157 AARTS, J.P.A., PARCS, automatic remote control system for HF radio stations.
- 22, 108 ANDERSEN, Sv. E. and DANIEL CHRISTENSEN J., Transistorized carrier equipment installed by Copenhagen Telephone Company, (1) Terminal and line equipment.
- 27, 11 APPELS, J.TH. and SPOON H.J., The ES series of automatic telegraph message-switching centres.
- 25, 70 ÅS, B-O., and GUSTAFSON B. G., System properties of jumping frequency radars.
- 26, 41 BAKKER, H.L., The output power of line amplifiers in carrier telephone systems employing pre-emphasis.
- 29, 77 BAKKER, H.L., POULSEN, T. and VLIJMEN W. VAN, 12 MHz line equipment for coaxial cables type 8TR 317 in operation on the Copenhagen - Aarhus route.
- 29, 145 BAKKER, H.L., Long-term stability of 12 MHz coaxial line equipment 8TR 317.
- 29, 150 BAKKER, H.L. and DERT L. F., Modulation system type 8TR 331 for the transmission of television signals over 12 MHz line equipment for coaxial cables.
- 29, 160 BAKKER, H.L. and DERT L.F., Measuring results of simultaneous television and telephony transmission over 12 MHz coaxial cable.
- 30, 103 BAKKER, H.L., The 60 MHz coaxial transmission system 8TR 341.
- 23, 100 BAST, G.H., Widening the frequency band of carrier cables.
- 26, 118 BEIGNET, F., Data transmission and processing system with remote supervision for a power distribution network.
- 26, 96 BENNEBROEK EVERTSZ, H.C., Parametric amplifiers for radar receivers.
- 26, 149 BERG, M.S.C. VAN DE, DIJKSTRA, R.J. and EE, C.G. VAN, Thyristor-controlled high-voltage rectifier for high-power transmitters.
- 23, 70 BERG, F.L. VAN DEN, Communications receiver type 8RO 501.
- 25, 114 BERG, F.L. VAN DEN and ITERSON, P.W.L. VAN, Transistorized automatic radio telephone terminal type 8RY 750.
- 30, 45 BERG, F.L. VAN DEN, The Lincompex radio-telephone terminal equipment of the RY 741 series.
- 29, 188 BEUKELMAN, B.J., The undetected-error probability of codes using two-coordinate parity check and of cyclical codes.
- 22, 162 BEIJNINK, W. and LODDER J.C., Transistorized carrier telephone equipment, (3) Power supply.
- 26, 1 BEIJNINK, W., VITHA, F.A. and ZIEKMAN, C., The 8TR 300 series carrier telephone equipment.
- 27, 135 BEIJNINK, W., Programme transmission on carrier telephone routes.

- 29, 64 BEIJNINK, W., The 8TR 352 channel and group modulation equipment for carrier telephone systems.
- 30, 93 BIKKER, P., Frequency synthesizer RY 746 for HF receivers and transmitters.
- 30, 173 BODART, R., Telegraph distortion introduced by TDM systems.
- 25, 137 BODMER, M.H., Microwave anechoic chamber.
- 26, 157 BOER, J. DE, Economic aspects of multi-exchange telephone network planning.
- 30, 167 BOER, J. DE and JUNG, M.M., Comparison of the traffic handling capacity of subscriber transpositions.
- 28, 59 BOESVELD, A., GRANJE, J.C. DE, VERNOOY J. and PLOEG, H. VAN DER, Automatic transmission measuring equipment for international telephone lines.
- 23, 103 BOLLE, A.P., SIE SWAN AN, DUIMELAAR J.H. and LANSU, J.F., Transistorized line equipment for a 120 channel carrier telephone system.
- 25, 51 BOURGONJON, L.R., Telemetry system for the third stage of the ELDO launcher.
- 30, 29 BOURGONJON, L.R., Progress in telemetry applications in the ELDO launcher programme.
- 21, 114 BOUWMAN, H. and KARLIN, M., Transistorized telegraph transmission systems.
- 22, 173 BOUWMAN, H., The Irish telegraph network equipped with transistorized VF equipment.
- 27, 73 BOUWMAN, H., CARRETTE, G. and DERAEMAEKER, R., Telegraph and data carrier systems, type 3TR 1102 and 3TR 1103, with frequency-shift modulation.
- 27, 124 BOUWMAN, H., NORT, H. and VLEMINCK, S. DE, Amplitude-modulated voice-frequency telegraph system type 3TR 1100.
- 29, 84 BOUWMAN, H., Modems for data transmission over the public telephone network.
- 21, 45 BROUWER, J.F., Survey of signalling facilities for type STR 109 basic carrier telephone equipment.
- 23, 1 BROUWER, J.F., Negative impedance repeaters or negistors.
- 22, 1 BRUNNEKREEF, H.H., The UDI automatic telephone system for small public exchanges
- 25, 2 BUCKENS, A. and LEBON, Y., Equipment for telesupervision systems.
- 27, 73 CARRETTE, G., BOUWMAN, H. and DERAEMAEKER, R., Telegraph and data carrier systems, type 3TR 1102 and 3TR 1103, with frequency-shift modulation.
- 25, 141 COIRON, M., DUPIRE, G. and LORIMY, B., A numerical data transmission system.
- 22, 141 COMTE, C. LE, Data transmission and display units for waterway supervision radar systems.
- 23, 83 CORNELIUS, P., The Giorgi or M.K.S.A. system.
- 22, 108 DANIEL CHRISTENSEN, J. and ANDERSEN, Sv.E., Transistorized carrier equipment installed by Copenhagen Telephone Company, (1) Terminal and line equipment.
- 30, 87 DEFEUILLEY, J.P. and ETIENNE, M., UHF shipborne transceiver ERM 7000.
- 27, 73 DERAEMAEKER, R., CARRETTE, G. and BOUWMAN, H., Telegraph and data carrier systems, type 3TR 1102 and 3TR 1103, with frequency-shift modulation.
- 25, 153 DERT, L.F. and KRASTEV, P.G., Type STR 120 television modulation system for the Sydney - Melbourne cable.
- 29, 150 DERT, L.F. and BAKKER, H.L., Modulation system type 8TR 331 for the transmission of television signals over 12 MHz line equipment for coaxial cables.
- 29, 160 DERT, L.F. and BAKKER, H.L., Measuring results of simultaneous television and telephony transmission over 12 MHz coaxial cable.
- 30, 65 DINGJAN, A.J.M., The 8TR 602 Pulse Code Modulation system.

- 21, 183 DOVEREN, C.P.L. VAN and LANSU, J.F., Transistorized carrier telephone equipment, (2) Repeater equipment for deloaded cables.
- 25, 28 DUCAMUS, J. and TARASSOFF, A., Short-haul and rural carrier telephone system type 7TR 001 with ten stackable channels.
- 23, 103 DUIMELAAR, J.H., BOLLE, A.P., SIE SWAN AN and LANSU, J.F., Transistorized line equipment for a 120-channel carrier telephone system.
- 21, 67 DUIVENSTIJN, A.J., Tenth anniversary of the national mobilophone network in the Netherlands.
- 25, 141 DUPIRE, G., COIRON, M. and LORIMY, B., A numerical data transmission system.
- 21, 1 DIJK, J.W.H. VAN, Supervision and control of television transmitters.
- 26, 149 DIJKSTRA, R.J., BERG, M.S.C. VAN DE and EE, C.G. VAN, Thyristor-controlled high-voltage rectifier for high-power transmitters.
- 26, 149 EE, C.G. VAN, BERG, M.S.C. VAN DE and DIJKSTRA, R.J., Thyristor-controlled high-voltage rectifier for high-power transmitters.
- 30, 87 ETIENNE, M. and DEFEUILLEY, J.P., UHF shipborne transceiver ERM 7000.
- 30, 127 FABICH, W., Line conditioning for data transmission.
- 25, 164 FOUILLOY, J.P., The type AHV 3 frequency-modulated radio altimeter.
- 26, 141 FREMERY, F. DE, Landmarks in the development of an industry (1).
- 27, 29, 27, 86, 27, 97 Parts (2), (3) and (4).
- 24, 45 GAILLARD, J., Reducing the number of elements in ladder networks by the use of autotransformers.
- 21, 13 GELDEREN, J.H. VAN, Carrier telephone systems incorporating basic type STR 109 equipment.
- 21, 93 GOLDSTERN, E. and NORT, H., Type STR 123, 24-channel, voice-frequency carrier telegraph system.
- 26, 75 GOLDSTERN, E. and HOEK, M.J., Single-channel 5-unit TOR type 8AX 3509.
- 30, 1 GOLDSTERN, E., SILVA, H. DA and KOK, J.A., Simplex TOR STB 75.
- 25, 81 GRAAFF, M.G. DE and ITERSON, P.W.L. VAN, Transistorization changes the design of radio communication equipment.
- 28, 59 GRANJE, J.C. DE, BOESVELD, A., PLOEG, H. VAN DER and VERNOOY, J., Automatic transmission measuring equipment for international telephone lines.
- 22, 78 GROSSER, H.K.M., Requirements for electronic switching equipment in telecommunication.
- 23, 53 GROSSER, H.K.M., Electronic telephone exchanges. What we have done so far.
- 24, 13 GROSSER, H.K.M. and SCHRAMEL, F.J., Data transmission and switching equipment for the seat reservation system of United Air Lines (1).
- 29, 55 GRUBBEN, H.P.J. and VELDKAMP, P., The small EBX 15 private branch telephone exchange using mini-reed contacts.
- 25, 70 GUSTAFSON, B.G. and ÅS, B-O., System properties of jumping-frequency radars.
- 25, 58 HARKEMA, P., Telecommunication network planning for different types of digital traffic.
- 27, 1 HARRISON, A.F., Measuring equipment for data transmission channels.
- 23, 62 HEETMAN, A., The switching network in an experimental electronic telephone exchange.

- 30, 15 HERMES, W. and POTUIT, A., Level regulation, a decisive feature of coaxial line equipment.
- 22, 124 HILKE, O., SEPPEN, J.M.G. and VERHOEFF, W.J., The Elbe-Weser shore-based radar system.
- 26, 75 HOEK, M.J. and GOLDSTERN, E., Single-channel 5-unit TOR type 8AX 3509.
- 22, 14 HOOLBOOM, G.J. and KROES, J.L. DE, Automatic telephone exchange for Medan, Northern Sumatra.
- 24, 137 HOOJKAMP, C., The CCITT transmission plan for the world-wide telephone service, (1) Line transmission.
- 24, 150 (2) Telephone transmission performance.
- 23, 21 ITERSON, P.W.L. VAN, SNIJDERS, C.A. and TEUNISSEN, H.A., Multi-purpose continuously tunable 5 and 10 kW transmitters.
- 24, 56 ITERSON, P.W.L. VAN, A 250/300 W HF channelized transmitter with full-range tuning.
- 24, 127 ITERSON, P.W.L. VAN, Test equipment for ISB and SSB transmitters.
- 25, 81 ITERSON, P.W.L. VAN and GRAAFF, M.G. DE, Transistorization changes the design of radio communication equipment.
- 25, 89 ITERSON, P.W.L. VAN, A transistorized channelized HF communication receiving system.
- 25, 107 ITERSON, P.W.L. VAN and SMYTHE, G.E., ISB adapter for HF communication receiving system.
- 25, 114 ITERSON, P.W.L. VAN and BERG, F.L. VAN DEN, Transistorized automatic radio telephone terminal type 8RY 750.
- 28, 31 ITERSON, P.W.L. VAN, 5 kW HF communication ISB transmitter with transistorized driving equipment series RZ 510.
- 29, 41 ITERSON, P.W.L. VAN, Automatically tuned HF transmitter systems for 10 and 30 kW.
- 29, 89 ITERSON, P.W.L. VAN, An automatically tuned HF receiving system (RO 100 series).
- 21, 32 JUNG, M.M., Optimum size of overflow traffic groups.
- 23, 186 JUNG, M.M., Loss probability charts calculated with the formula of Engset.
- 29, 103 JUNG, M.M., Calculation of the blocking probability at small private automatic branch exchanges having fully available connecting circuits and exchange line relay sets.
- 30, 167 JUNG, M.M. and BOER, J. DE, Comparison of the traffic handling capacity of subscriber transpositions.
- 24, 33 KAMPEN, H. VAN, Magnetic tape store type MBO 51 for telegraph characters.
- 28, 135 KAMPEN, H. VAN, The type DS 714 computer-based message and data switching system.
- 30, 59 KAMPEN, H. VAN, The DS 714 system for Telex.
- 21, 114 KARLIN, M. and BOUWMAN, H., Transistorized telegraph transmission systems.
- 24, 25 KERKER, D.G., Radio link for radar signals at Frankfurt airport.
- 22, 81 KOK, H., The core amplifier, a basic circuit for electronic switching equipment.
- 24, 68 KOK, H., Data equipment for the seat reservation system of United Air Lines, (2) Concentrator.
- 30, 1 KOK, J.A., GOLDSTERN, E. and SILVA, H. DA, Simplex TOR STB 75.
- 23, 167 KOLK, L.J.E., Crosstalk problems in balanced carrier cables at frequencies up to 552 kHz.
- 23, 123 KRAMER, H.J. and POTJER, A.A., A new approach in designing radio link equipment.

- 23, 130 KRAMER, H.J., Radio-relay networks for the Elbe and Weser shore-based radar systems.
- 24, 89 KRAMER, H.J., The 4 GHz radio-relay repeater type 8SR 520, (1) Description of the repeater.
- 24, 96 KRAMER, H.J., The 4 GHz radio-relay repeater type 8SR 520, (2) Description of various units.
- 24, 162 KRAMER, H.J., A 70 MHz modulator/demodulator for wideband microwave links.
- 28, 1 KRAMER, H.J., The SR 600 series of transistorized radio-link equipment.
- 25, 153 KRASTEV, P.G. and DERT, L.F., Type STR 120 television modulation system for the Sydney - Melbourne cable.
- 28, 161 KRAYENBRINK, C.J., AIRLORD Mk2, pre-departure handling system for airports.
- 22, 14 KROES, J.L. DE and HOOLBOOM, G.J., Automatic telephone exchange for Medan Northern Sumatra.
- 21, 168 KUIJSTEN, L.H. and VITHA, F.A., Transistorized carrier telephone equipment, (1) Terminal equipment with 4 kHz spacing.
- 26, 109 KUIJSTEN, L.H., 24-channel carrier telephone equipment type 8TR 311 for radio links.
- 22, 51 LAMBALGEN, H. VAN and PLAS, J. VAN DER, The SGR 200 long-range surveillance radar at Schiphol airport.
- 21, 183 LANSU, J.F. and DOVEREN, C.P.L. VAN, Transistorized carrier telephone equipment, (2) Repeater equipment for deloaded VF cables.
- 22, 105 LANSU, J.F., Transistorized repeaters for a 120-channel carrier telephone system.
- 23, 103 LANSU, J.F., BOLLE, A.P., DUIMELAAR, J.H. and SIE SWAN AN, Transistorized line equipment for a 120-channel carrier telephone system.
- 26, 53 LANSU, J.F., Transistorized line equipment with 4, 6 and 12 MHz frequency bands for coaxial cables.
- 27, 149 LARCHER, J. and NOORDANUS, J., Frequency synthesizers for radio equipment.
- 23, 149 LAURENS, A., Television tropospheric scatter link between France and North Africa.
- 25, 2 LEBON, Y. and BUCKENS, A., Equipment for telesupervision systems.
- 30, 77 LEBON, Y. and VLEMINCK, S. DE, Digital telegraph and data transmission.
- 21, 109 LEEUWEN, F.A.J.M. VAN, Radio link carrier equipment for Saudi Arabia.
- 29, 165 LIEM, S.H., RAAFF, J.P. DE and SCHAAF, R.T. VAN DER, Type UV telephone system for automatic trunk and international calls.
- 28, 184 LIMBEROPOULOS, E.A., Two new message switching centres for the SITA network.
- 29, 32 LIND, G., Measurement of sea clutter correlation with frequency agility and fixed frequency radar.
- 22, 162 LODDER, J.C. and BEIJNINK, W., Transistorized carrier telephone equipment, (3) Power supply.
- 25, 141 LORIMY, B., COIRON, M., and DUPIRE, G., A numerical data transmission system.
- 21, 78 LUSSANET DE LA SABLONNIÈRE, C.J. DE, Impulse-governed oscillator techniques, (1).
- 21, 155, 22, 32 and 22, 94 Part (2), (3) and (4).
- 28, 148 LUITWIELER, C.H., A computer interface for the ELDO launcher inertial guidance system.
- 23, 179 METZ, J., WIJNEN, B.H. and TIMMER, A., Underground cables containing repeaters for multiquad carrier cables.
- 26, 25 MUILWIJK, D., Mobilophone bus traffic supervision and control system.
- 30, 137 MULDER, J., 1 kW all-solid-state HF communications transmitter RZ 500.

- 25, 15 NALBENTIAN, B., A 300 MHz radio-relay system.
- 26, 62 NICOLAÏ, W.H.J., Type UH PABX's for 30 and 45 extensions.
- 28, 49 NIELAND, TH.J., 300 kW shortwave transmitter type FB 010.
- 21, 137 NJIO, W.F., STR 109 carrier supply circuitry.
- 27, 149 NOORDANUS, J. and LARCHER, J., Frequency synthesizers for radio equipment.
- 29, 114 NOORDANUS, J., The SR 665 and SR 675 all-solid-state radio link equipment for the 6 and 7 GHz band.
- 22, 117 NORSGAARD JENSEN, C., Transistorized carrier equipment installed by Copenhagen Telephone Company, (2) Selection of VF cable pairs and crosstalk balancing.
- 21, 93 NORT, H. and GOLDSTERN, E., Type STR 123, 24-channel, voice-frequency carrier telegraph system.
- 27, 124 NORT, H., BOUWMAN, H. and VLEMINCK, S. DE, Amplitude-modulated voice-frequency telegraph system type 3TR 1100.
- 22, 51 PLAS, J. VAN DER and LAMBALGEN, H. VAN, The SGR 200 long-range surveillance radar at Schiphol airport.
- 28, 59 PLOEG, H. VAN DER, BOESVELD, A., GRANJE, J.C. DE and VERNOOY, J., Automatic transmission measuring equipment for international telephone lines.
- 28, 155 POPPE, J.K.A., PE-6 negistor system 8TR 321/10.
- 23, 123 POTJER, A.A. and KRAMER, H.J., A new approach in designing radio link equipment.
- 29, 140 POTUIT, A., 12 MHz coaxial line equipment type 8TR 317 for India.
- 30, 15 POTUIT, A. and HERMES, W., Level regulation, a decisive feature of coaxial line equipment.
- 29, 77 POULSEN, T., BAKKER, H.L. and VLIJMEN, W. VAN, 12 MHz line equipment for coaxial cables type 8TR 317 in operation on the Copenhagen - Aarhus route.
- 30, 38 PRENTICE, W.J.A., The DS 714 as a message switcher for the overseas telegraph traffic in the United Kingdom.
- 29, 165 RAAFF, J.P. DE, LIEM, S.H. and SCHAAF, T.R. VAN DER, Type UV telephone system for automatic trunk and international calls.
- 30, 113 REBEL, H. and SCHOLTEN, J.W., 60 MHz translating equipment 8TR 340.
- 28, 89 RIBEYRE, C. and TARASSOFF, A., Attenuation peaks on open-wire lines and the advantages of using phantom circuits.
- 28, 120 SCHAAF, R.T. VAN DER, International telephone switching centres in the Netherlands.
- 29, 165 SCHAAF, R.T. VAN DER, LIEM, S.H. and RAAFF, J.P. DE, Type UV telephone system for automatic trunk and international calls.
- 23, 42 SCHMITZ, M.J., Experimental electronic equipment for subscriber's fee metering.
- 21, 194 SCHOLTEN, J.W., Effective splicing methods in carrier cables.
- 22, 63 SCHOLTEN, J.W., The effect of tolerances in the elements of image parameter filters.
- 30, 113 SCHOLTEN, J.W. and REBEL, H., 60 MHz translating equipment 8TR 340.
- 24, 13 SCHRAMMEL, F.J. and GROSSER, H.K.M., Data transmission and switching equipment for the seat reservation system of United Air Lines (1).
- 28, 125 SCHRAMMEL, F.J., The DS 714 computer system used as a message switcher.
- 27, 105 SCHURINGA, T.M., Reed switches for telephony switching.
- 22, 124 SEPPEN, J.M.G., HILKE, O. and VERHOEFF, W.J., The Elbe-Weser shore-based radar system.
- 28, 21 SERRURE, A.E., Test results on 6 MHz telephone line equipment on small-bore coaxial cables on a trial route between Brussels and Dendermonde.

- 23, 103 SIE SWAN AN, BOLLE, A.P. and LANSU, J.F., Transistorized line equipment for a 120-channel carrier telephone system.
- 30, 1 SILVA, H. DA, GOLDSTERN, E. and KOK, J.A., Simplex TOR STB 75.
- 24, 74 SLOT, A.W. VAN 'T, Data equipment for the seat reservation system of United Air Lines, (2) Concentrator.
- 29, 137 SLOTBOOM, L.H., The DS 714 system employed in the Weather Message Switching Centre at Kansas City.
- 27, 55 SMIT, W., Electronic telephone exchanges in field trials.
- 25, 107 SMYTHE, G.E. and ITERSON, P.W.L. VAN, ISB adapter for HF communication receiving system.
- 23, 21 SNIJDERS, C.A., ITERSON, P.W.L. VAN and TEUNISSEN, H.A., Multi-purpose continuously tunable 5 and 10 kW HF transmitters.
- 27, 45 SOELEN, J.A. VAN, ASDE-500 radar for daylight viewing.
- 27, 11 SPOON, H.J. and APPELS, J.TH., The ES series of automatic telegraph message switching centres.
- 28, 175 SPOON, H.J., The telegraph input-output multiplexer for the DS 714 message switching system.
- 30, 182 STIMPEL, W., TV transmission equipment at Munich Olympics.
- 25, 28 TARASSOFF, A. and DUCAMUS, J., Short-haul and rural carrier telephone system type 7TR 001 with ten stackable channels.
- 28, 89 TARASSOFF, A. and RIBEYRE, C., Attenuation peaks on open-wire lines and the advantages of using phantom circuits.
- 25, 43 TAYLOR, D.H., Some electrical and mechanical aspects of a transistorized TOR.
- 23, 21 TEUNISSEN, H.A., ITERSON, P.W.L. VAN and SNIJDERS, C.A., Multi-purpose continuously tunable 5 and 10 kW HF transmitters.
- 23, 179 TIMMER, A., METZ, J. and WIJNEN, B.H., Underground cases containing repeaters for multiquad carrier cables.
- 24, 115 TIMMER, A. and TIMMERMANS, E., Progress in the mechanical construction of transmission equipment.
- 25, 186 TIMMER, A. TIMMERMANS, E., The conclave construction practice applied to broadband multichannel transmission equipment.
- 24, 115 TIMMERMANS, E. and TIMMER, A., Progress in the mechanical construction of transmission equipment.
- 25, 186 TIMERMANS, E. and TIMMER, A., The conclave construction practice applied to broadband multichannel transmission equipment.
- 29, 11 TIMMERMANS, E., New mechanical design for telephone transmission equipment.
- 24, 1 UITERMARK, G.M., A new service: a country-wide radio code paging system.
- 29, 55 VELDKAMP, P. and GRUBBEN, H.P.J., The small EBX 15 private branch telephone exchange using mini-reed contacts.
- 26, 131 VERHAGEN, J., Automatic temperature compensation equipment for the 120-channel carrier telephone system.
- 22, 124 VERHOEFF, W.J., HILKE, O. and SEPPEN, J.M.G., The Elbe-Weser shore-based radar system.
- 28, 59 VERNOOY, J., BOESVELD, A., GRANJE, J.C. DE and PLOEG, H. VAN DER, Automatic transmission measuring equipment for international telephone lines.

- 21, 168 VITHA, F.A. and KUIJSTEN, L.H., Transistorized carrier telephone equipment, (1) Terminal equipment with 4 kHz spacing.
- 26, 1 VITHA, F.A., BEIJNINK, W. and ZIEKMAN, C., The 8TR 601 pulse code modulation system.
- 27, 124 VLEMINCK, S. DE, NORT, H. and BOUWMAN, H., Amplitude-modulated voice-frequency telegraph system type 3TR 1100.
- 30, 77 VLEMINCK, S. DE and LEBON, Y., Digital telegraph and data transmission system type 3TR 1500.
- 25, 125 VLERKEN, W.TH. VAN, Radio communication and centralized traffic control for a railway system.
- 29, 77 VLIJMEN, W. VAN, POULSEN, T. and BAKKER, H.L., 12 MHz line equipment for coaxial cables type 8TR 317 in operation on the Copenhagen - Aarhus route.

- 21, 145 WESTERVELD, F., The UR 49A automatic telephone system, (1) Main principles.
- 23, 97 WESTERVELD, F., Extinction of a race at Warffum.
- 23, 179 WIJNEN, B.H., METZ, J. and TIMMER, A., Underground cases containing repeaters for multiquad carrier cables.

- 29, 1 ZEEUW, C.M. DE, HF communication systems.
- 26, 1 ZIEKMAN, C., BEIJNINK, W. and VITHA, F.A., The 8TR 300 series carrier telephone equipment.
- 29, 23 ZIEKMAN, C., The 8TR 601 pulse code modulation system.

Subject index

ALTIMETERS

- 25, 164 The type AHV 3 frequency-modulated radio altimeter. *J.P. Fouilloy.*

AUTOMATIC TELEPHONE SWITCHING

- 21, 145 The UR 49A automatic telephone system, (1) Main principles. *F. Westerveld.*
 22, 1 The UD1 automatic telephone system for small public exchanges. *H. H. Brunnekeef.*
 22, 14 Automatic telephone exchange for Medan, Northern Sumatra. *G.J. Hoolboom and J.L. de Kroes.*
 22, 78 Requirements for electronic switching equipment in telecommunication. *H.K.M. Grosser.*
 23, 42 Experimental electronic equipment for subscriber's fee metering. *M.J. Schmitz.*
 23, 53 Electronic telephone exchanges. What we have done so far. *H.K.M. Grosser.*
 23, 62 The switching network in an experimental electronic telephone exchange. *A. Heetman.*
 26, 157 Economic aspects of multi-exchange telephone network planning. *J. de Boer.*
 27, 55 Electronic telephone exchanges in field trials. *W. Smit.*
 27, 105 Reed switches for telephony switching. *T.M. Schuringa.*
 28, 120 International telephone switching centres in the Netherlands. *R.T. van der Schaaf.*
 29, 165 Type UV telephone system for automatic trunk and international calls. *S.H. Liem, J.P. de Raaff and R.T. van der Schaaf.*
 30, 167 Comparison of the traffic handling capacity of subscriber transpositions. *M.M. Jung and J. de Boer.*

CARRIER TELEPHONY (see also: coaxial line equipment)

- 21, 13 Carrier telephone systems incorporating basic type STR 109 equipment. *J.H.W. van Dijk.*
 21, 45 Survey of signalling facilities for type STR 109 basic carrier telephone equipment. *J.F. Brouwer.*
 21, 137 STR 109 carrier supply circuitry. *W.F. Njio.*
 21, 168 Transistorized carrier telephone equipment, (1) Terminal equipment with 4 kHz spacing. *L.H. Kuijsten and F.A. Vitha.*
 21, 183 Transistorized carrier telephone equipment, (2) Repeater equipment for deloaded cables. *C.P.L. van Doveren and J.F. Lansu.*
 22, 105 Transistorized repeaters for a 120-channel carrier telephone system. *J.F. Lansu.*
 22, 108 Transistorized carrier equipment installed by Copenhagen Telephone Company, (1) Terminal and line equipment. *J. Daniel Christensen and Sv.E. Andersen.*

- 22, 117 Transistorized carrier equipment installed by Copenhagen Telephone Company, (2) Selection of VF cable pairs and crosstalk balancing. *C. Norsgaard Jensen.*
- 22, 162 Transistorized carrier equipment, (3) Power supply. *W. Beijnkink and J.C Lodder.*
- 23, 1 Negative impedance repeaters or negistors. *J.F. Brouwer.*
- 23, 100 Widening the frequency band of carrier cables. *G.H. Bast.*
- 23, 103 Transistorized line equipment for a 120-channel carrier telephone system. *A.P. Bolle, Sie Swan An, J.H. Duimelaar and J.F. Lansu.*
- 23, 167 Crosstalk problems in balanced carrier cables at frequencies up to 552 kHz. *L.J.E. Kolk.*
- 23, 179 Underground cases containing repeaters for multiquad carrier cables. *J. Metz, B.H. Wijnen and A. Timmer.*
- 24, 137 The CCITT transmission plan for the world-wide telephone service, (1) Line transmission. *C. Hooijkamp.*
- 24, 150 (2) Telephone transmission performance. *C. Hooijkamp.*
- 25, 28 Short-haul and rural carrier telephone system type 7TR 001 with ten stackable channels. *J. Ducamus and A. Tarassoff.*
- 25, 186 The conclave construction practice applied to broadband multichannel transmission equipment. *A. Timmer and E. Timmermans.*
- 26, 1 The 8TR 300 series carrier telephone equipment. *W. Beijnkink, F.A. Vitha and C. Ziekman.*
- 26, 41 The output power of line amplifiers in carrier telephony systems employing pre-emphasis. *H.L. Bakker.*
- 26, 109 24-channel carrier telephone equipment type 8TR 311 for radio links. *L.H. Kuijsten.*
- 26, 131 Automatic temperature compensation equipment for the 120-channel carrier telephone system. *J. Verhagen.*
- 27, 135 Programme transmission on carrier telephone routes. *W. Beijnkink.*
- 28, 59 Automatic transmission measuring equipment for international telephone lines. *A. Boesveld, J.C. de Granje, J. Vernooy and H. van der Ploeg.*
- 28, 155 PE-6 negistor system 8TR 321/10. *J.K.A. Poppe.*
- 29, 11 New mechanical design for telephone transmission equipment. *E. Timmermans.*
- 29, 64 The 8TR 352 channel and group modulation equipment for carrier telephone systems. *W. Beijnkink.*

COAXIAL LINE EQUIPMENT

- 25, 153 Type STR 120 television modulation system for the Sydney - Melbourne cable. *L.F. Dert and P.G. Krastev.*
- 26, 53 Transistorized line equipment with 4, 6 and 12 MHz frequency bands for coaxial cables. *J.F. Lansu.*
- 28, 21 Test results on 6 MHz telephone line equipment on small-bore coaxial cables on a trial route between Brussels and Dendermonde. *A.E. Serrure.*
- 29, 77 12 MHz line equipment for coaxial cables type 8TR 317 in operation on the Copenhagen - Aarhus route. *T. Poulsen, H.L. Bakker and W. van Vlijmen.*
- 29, 140 12 MHz coaxial line equipment type 8TR 317 for India. *A. Potuit.*
- 29, 145 Long-term stability of 12 MHz coaxial line equipment 8TR 317. *H.L. Bakker.*
- 29, 150 Modulation system type 8TR 331, for the transmission of television signals over 12 MHz line equipment for coaxial cables. *H.L. Bakker and L.F. Dert.*
- 29, 160 Measuring results of simultaneous television and telephony transmission over 12 MHz coaxial cable. *H.L. Bakker and L.F. Dert.*
- 30, 15 Level regulation, a decisive feature of coaxial line equipment. *W. Hermes and A. Potuit.*

30, 103 The 60 MHz coaxial transmission system 8TR 341. *H.L. Bakker.*
30, 113 60 MHz translating equipment 8TR 340. *J. W. Scholten and H. Rebel.*
30, 182 TV transmission equipment at Munich Olympics. *W. Stimpel.*

COMPONENTS

22, 63 The effect of tolerances in the elements of parameter filters. *J.W. Scholten.*
22, 81 The core amplifier, a basic circuit for electronic switching equipment. *H. Kok.*
24, 45 Reducing the number of elements in ladder networks by the use of autotransformers. *J. Gaillard.*
27, 105 Reed switches for telephony switching. *T.M. Schuringa.*

CROSSTALK

21, 194 Effective splicing methods in carrier cables. *J.W. Scholten.*
22, 117 Transistorized carrier equipment installed by Copenhagen Telephone Company, (2) Selection of cable pairs and crosstalk balancing. *C. Norsgaard Jensen.*
23, 167 Crosstalk problems in balanced carrier cables at frequencies up to 552 kHz. *L.J.E. Kolk.*

DATA TRANSMISSION

24, 13 Data transmission and switching equipment for the seat reservation system of United Air Lines (1). *H.K.M. Grosser and F.J. Schramel.*
24, 68 Data equipment for the seat reservation system of United Air Lines, (2) Concentrator. *H. Kok.*
25, 2 Equipment for telesupervision systems. *A. Buckens and Y. Lebon.*
25, 58 Telecommunication network planning for different types of digital traffic. *P. Harkema.*
25, 141 A numerical data transmission system. *M. Coiron, G. Dupire and B. Lorimy.*
26, 118 Data transmission and processing system with remote supervision for a power distribution network. *F. Beignet.*
27, 1 Measuring equipment for data transmission channels. *A.F. Harrison.*
27, 73 Telegraph and data carrier systems type 3TR 1102 and 3TR 1103, with frequency-shift modulation. *H. Bouwman, G. Carrette and R. Deraemaeker.*
28, 135 The type DS 714 computer-based message and data switching system. *H. van Kampen.*
28, 161 Airlord Mk 2, pre-departure handling system for airports. *C.J. Krayenbrink.*
29, 84 Modems for data transmission over the public telephone network. *H. Bouwman.*
29, 188 The undetected-error probability of codes using two-coordinate parity check and of cyclical codes. *B.J. Beukelman.*
30, 77 Digital telegraph and data transmission system type 3TR 1500. *S. de Vleminck and Y. Lebon.*
30, 127 Line conditioning for data transmission. *W. Fabich.*
30, 173 Telegraph distortion introduced by TDM systems. *R. Bodart.*

ELECTRONIC EXCHANGES

22, 78 Requirements for electronic switching equipment in telecommunication. *H.K.M. Grosser.*
22, 81 The core amplifier, a basic circuit for electronic switching equipment. *H. Kok.*
23, 42 Experimental electronic equipment for subscriber's fee metering. *M.J. Schmitz.*
23, 53 Electronic telephone exchanges. What we have done so far. *H.K.M. Grosser.*
23, 62 The switching network in an experimental electronic telephone exchange. *A. Heetman.*
27, 55 Electronic telephone exchanges in field trials. *W. Smit.*

- 27, 125 The DS 714 computer system used as a message switcher. *F.J. Schramel*.
 27, 135 The type DS 714 computer-based message and data switching system. *H. van Kampen*.
 30, 59 The DS 714 system for Telex. *H. van Kampen*.

EUROPEAN SPACE PROGRAM (ELDO)

- 25, 51 Telemetry system for the third stage of the ELDO launcher. *L.R. Bourgonjon*.
 28, 148 A computer interface for the ELDO launcher inertial guidance system. *C.H. Luitwieler*.
 30, 29 Progress in telemetry applications in the ELDO launcher programme. *L.R. Bourgonjon*.

EXCHANGES, PRIVATE

- 26, 62 Type UH PABX's for 30 and 45 extensions. *W.H.J. Nicolaï*.
 29, 55 The small EBX 15 private branch telephone exchange using mini-reed contacts. *H.P.J. Grubben and P. Veldkamp*.

HISTORY OF PTI

- 26, 141 Landmarks in the development of an industry. *F. de Fremery*. (1) Origin.
 27, 29 (2) Progress in radio and radar techniques.
 27, 86 (3) Progress in the techniques of transmission and switching in telephony and telegraphy.
 27, 97 (4) Philips International Telecommunications Training Centre.

HF RADIOCOMMUNICATION

- 23, 21 Multi-purpose continuously tunable 5 and 10 kW HF transmitters. *P.W.L. van Iterson, C.A. Snijders and H.A. Teunissen*.
 23, 70 Communications receiver type 8RO 501. *F.L. van den Berg*.
 24, 56 A 250/300 W HIF channelized transmitter with full-range tuning. *P.W.L. van Iterson*.
 24, 127 Test equipment for ISB and SSB transmitters. *P.W.L. van Iterson*.
 25, 43 Some electrical and mechanical aspects of a transistorized TOR. *D.H. Taylor*.
 25, 81 Transistorization changes the design of radio communication equipment. *M.G. de Graaff and P.W.L. van Iterson*.
 25, 89 A transistorized channelized HF communication receiving system. *P.W.L. van Iterson*.
 25, 107 ISB adapter for HF communication receiving system. *G.E. Smythe and P.W.L. van Iterson*.
 25, 114 Transistorized automatic radio telephone terminal type 8RY 750. *F.L. van den Berg and P.W.L. van Iterson*.
 26, 149 Thyristor-controlled high-voltage rectifier for high-power transmitters. *M.S.C. van de Berg, R.J. Dijkstra and C.G. van Ee*.
 28, 31 5 kW HF communication ISB transmitter with transistorized driving equipment series RZ 510. *P.W.L. van Iterson*.
 29, 1 HF communication systems. *C.M. de Zeeuw*.
 29, 41 Automatically tuned HF transmitter systems for 10 and 30 kW. *P.W.L. van Iterson*.
 29, 89 An automatically tuned HF receiving system (RO 100 series). *P.W.L. van Iterson*.
 30, 1 Simplex TOR STB 75. *H. da Silva, E. Goldstern and J.A. Kok*.
 30, 45 The Lincompex radio-telephone terminal equipment of the RY 741 series. *F.L. van den Berg*.
 30, 93 Frequency synthesizer RY 746 for HF receivers and transmitters. *P. Bikker*.
 30, 137 1 kW all-solid-state HF communications transmitter RZ 500. *J. Mulder*.
 30, 147 The professional communications receiver RO 150. *J.P.A. Aarts*.
 30, 157 PARCS, automatic remote control system for HF radio stations. *J.P.A. Aarts*.

LINE TRANSMISSION EQUIPMENT

- 21, 13 Carrier telephone systems incorporating basic type STR 109 equipment. *J.H. van Gelderen.*
- 21, 45 Survey of signalling facilities for type STR 109 basic carrier telephone equipment. *J.F. Brouwer.*
- 21, 93 Type STR 123 24-channel voice-frequency carrier telegraph system. *H. Nort and E. Goldstern.*
- 21, 137 STR 109 carrier supply circuitry. *W.F. Njio.*
- 21, 168 Transistorized carrier telephone equipment, (1) Terminal equipment with 4 kHz carrier spacing. *L.H. Kuysten and F.A. Vitha.*
- 21, 183 Transistorized carrier telephone equipment, (2) Repeater equipment for deloaded VF cables. *C.P.L. van Doveren and J.F. Lansu.*
- 21, 194 Effective splicing methods in carrier cables. *J.W. Scholten.*
- 22, 63 The effect of tolerances in the elements of image parameter filters. *J.W. Scholten.*
- 22, 105 Transistorized repeaters for a 120-channel carrier telephone system. *J.F. Lansu.*
- 22, 108 Transistorized carrier equipment installed by Copenhagen Telephone Company, (1) Terminal and line equipment. *J. Daniel Christensen and Sv. E. Andersen.*
- 22, 117 Transistorized carrier equipment installed by Copenhagen Telephone Company, (2) Selection of VF cable pairs and crosstalk balancing. *C. Norsgaard Jensen.*
- 22, 162 Transistorized carrier telephone equipment, (3) Power supply. *W. Beijmink and J.C. Lodder.*
- 23, 1 Negative impedance repeaters or negistors. *J.F. Brouwer.*
- 23, 100 Widening the frequency band of carrier cables. *G.H. Bast.*
- 23, 103 Transistorized line equipment for a 120-channel carrier telephone system. *A.P. Bolle, Sie Swan An, J.H. Duimelaar and J.F. Lansu.*
- 23, 167 Crosstalk problems in balanced carrier cables at frequencies up to 552 kHz. *L.J.E. Kolk.*
- 23, 179 Underground cases containing repeaters for multiquad carrier cables. *J. Metz, B.H. Wijnen and A. Timmer.*
- 24, 137 The CCITT transmission plan for the world-wide telephone service. *C. Hooijkamp.*
 - (1) Line transmission.
 - (2) Telephone transmission performance.
- 25, 28 Short-haul and rural carrier telephone system type 7TR 001 with ten stackable channels. *J. Ducamus and A. Tarassoff.*
- 25, 153 Type STR 120 television modulation system for the Sydney - Melbourne cable. *L.F. Dert and P.G. Krastev.*
- 25, 186 The conclave construction practice applied to broadband multichannel transmission equipment. *A. Timmer and E. Timmermans.*
- 26, 1 The 8TR 300 series carrier telephone equipment. *W. Beijmink, F.A. Vitha and C. Ziekman.*
- 26, 41 The output power of line amplifiers in carrier telephony systems employing pre-emphasis. *H.L. Bakker.*
- 26, 53 Transistorized line equipment with 4, 6 and 12 MHz frequency bands for coaxial cables. *J.F. Lansu.*
- 26, 109 24-channel carrier telephone equipment type 8TR 311 for radio links. *L.H. Kuijsten.*
- 26, 131 Automatic temperature compensation equipment for the 120-channel carrier telephone system. *J. Verhagen.*
- 27, 135 Programme transmission on carrier telephone routes. *W. Beijmink.*

- 28, 21 Test results on 6 MHz telephone line equipment on small-bore coaxial cables on a trial route between Brussels and Dendermonde. *A.E. Serrure.*
- 28, 59 Automatic transmission measuring equipment for international telephone lines. *A. Boesveld, J.C. de Granje, J. Vernooy and H. van der Ploeg.*
- 28, 89 Attenuation peaks on open-wire lines and the advantages of using phantom circuits. *A. Tarasoff and C. Ribeyre.*
- 28, 155 PE-6 negistor system 8TR 321/10. *J.K.A. Poppe.*
- 29, 11 New mechanical design for telephone transmission equipment. *E. Timmermans.*
- 29, 64 The 8TR 352 channel and group modulation equipment for carrier telephone systems. *W. Beijinink.*
- 29, 77 12 MHz line equipment for coaxial cables type 8TR 317 in operation on the Copenhagen - Aarhus route. *T. Poulsen, H.L. Bakker and W. van Vlijmen.*
- 29, 140 12 MHz coaxial line equipment type 8TR 317 for India. *A. Potuit.*
- 29, 145 Long-term stability of 12 MHz coaxial line equipment 8TR 317. *H.L. Bakker.*
- 29, 150 Modulation system type 8TR 331, for the transmission of television signals over 12 MHz line equipment for coaxial cables. *H.L. Bakker and L.F. Dert.*
- 29, 160 Measuring results of simultaneous television and telephony transmission over 12 MHz coaxial cable. *H.L. Bakker and L.F. Dert.*
- 30, 15 Level regulation, a decisive feature of coaxial line equipment. *W. Hermes and A. Potuit.*
- 30, 103 The 60 MHz coaxial transmission system 8TR 341. *H.L. Bakker.*
- 30, 113 60 MHz translating equipment 8TR 340. *J.W. Scholten and H. Rebel.*
- 30, 127 Line conditioning for data transmission. *W. Fabich.*
- 30, 182 TV transmission equipment at Munich Olympics *W. Stimpel.*

MEASURING EQUIPMENT

- 27, 1 Measuring equipment for data transmission channels. *A.F. Harrison.*
- 28, 59 Automatic transmission measuring equipment for international telephone lines. *A. Boesveld, J.C. de Granje, J. Vernooy and H. van der Ploeg.*
- 24, 127 Test equipment for ISB and SSB transmitters. *P.W.L. van Iterson.*

MECHANICAL CONSTRUCTION

- 24, 115 Progress in the mechanical construction of transmission equipment. *A. Timmer and E. Timmermans.*
- 25, 81 Transistorization changes the design of radio communication equipment. *M.G. de Graaff and P.W.L. van Iterson.*
- 20, 186 The conclave construction practice applied to broadband multichannel transmission equipment. *A. Timmer and E. Timmermans.*
- 29, 11 New mechanical design for telephone transmission equipment. *E. Timmermans.*

MICROWAVE

(see also Radar and Radio link equipment)

- 24, 162 A 70 MHz modulator-demodulator for wideband microwave links. *H.J. Kramer.*
- 25, 137 Microwave anechoic chamber. *M.H. Bodmer.*

MOBILE RADIO

- 21, 67 Tenth anniversary of the national mobilophone network in the Netherlands. *A.J. Duivenstijn.*
- 24, 1 A new service: a country-wide radio code paging system. *G.M. Uitermark.*
- 26, 25 Mobilophone bus traffic supervision and control system. *D. Mulwijk.*

OSCILLATOR TECHNIQUES

- 21, 78 Impulse-governed oscillator techniques. *C.J. de Lussanet de la Sablonière*. (1) General principles. Chapters 1 to 5.
- 21, 155 (2) General principles. Chapters 6 to 13.
- 22, 32 (3) Theory. Chapters 14 to 18.
- 22, 94 (4) Theory. Chapters 19 to 22.
- 27, 149 Frequency synthesizers for radio equipment. *J. Larcher and J. Noordanus*.

PULSE CODE MODULATION

- 29, 23 The 8TR 601 pulse code modulation system. *C. Ziekman*.
- 30, 65 The 8TR 602 pulse code modulation system. *A.J.M. Dingjan*.

PABX

- 26, 62 Type UH PABX's for 30 and 45 extensions. *W.H.J. Nicolai*.
- 29, 55 The small EBX 15 private branch telephone exchange using mini-reed contacts. *H.P.J. Grubben and P. Veldkamp*.
- 29, 103 Calculation of the blocking probability at small private automatic branch exchanges having fully available connecting circuits and exchange line relay sets. *M.M Jung*.

RADAR

- 22, 51 The SGR 200 long-range surveillance radar at Schiphol airport. *H. van Lambalgen and J. van der Plas*.
- 22, 124 The Elbe - Weser shore-based radar system. *O. Hilke, J.M.G. Seppen and W.J. Verhoeff*.
- 22, 141 Data transmission and display units for waterway supervision radar systems. *C. le Comte*.
- 24, 25 Radio link for radar signals at Frankfurt airport. *D.G. Kerker*.
- 25, 70 System properties of jumping-frequency radars. *B.G. Gustafson and B-O. Ås*.
- 26, 96 Parametric amplifiers for radar receivers. *H.C. Bennebroek Evertsz*.
- 27, 45 ASDE-500 radar for daylight viewing. *J.A. van Soelen*.
- 29, 32 Measurement of sea clutter correlation with frequency agility and fixed frequency radar. *G. Lind*.

RADIO ALTIMETER

- 25, 164 The type AHV 3 frequency-modulated radio altimeter. *J.-P. Fouilloy*.

RADIO COMMUNICATION

- 21, 67 Tenth anniversary of the national mobilophone network in the Netherlands. *A.J. Duivenstijn*.
- 23, 70 Communications receiver type 8RO 501. *F.L. van den Berg*.
- 24, 56 A 250/300 W HF channelized transmitter with full-range tuning. *P.W.L. van Itersen*.
- 25, 15 A 300 MHz radio-relay system. *B. Nalbentian*.
- 25, 81 Transistorization changes the design of radio communication equipment. *M.G. de Graaff and P.W.L. van Itersen*.
- 25, 89 A transistorized channelized HF communication receiving system. *P.W.L. van Itersen*.
- 25, 107 ISB adapter for HF communication receiving system. *G.E. Smythe and P.W.L. van Itersen*.
- 25, 114 Transistorized automatic radio telephone terminal type 8RY 750. *F.L. van den Berg and P.W.L. van Itersen*.

- 25, 125 Radio communication and centralized traffic control for a railway system. *W. Th. van Vlerken.*
- 28, 31 5 kW HF communication ISB transmitter with transistorized driving equipment series RZ 510. *P.W.L. van Iterson.*
- 29, 1 HF communication systems. *C.M. de Zeeuw.*
- 29, 41 Automatically tuned HF transmitter systems for 10 and 30 kW. *P.W.L. van Iterson.*
- 29, 89 An automatically tuned HF receiving system (RO 100 series). *P.W.L. van Iterson.*
- 30, 1 Simplex TOR STB 75. *H. da Silva, E. Goldstern and J.A. Kok.*
- 30, 45 The Lincompex radio-telephone terminal equipment of the RY 741 series. *F.L. van den Berg.*
- 30, 87 UHF shipborne transceiver ERM 7000. *M. Etienne and J.P. Defeuilley.*
- 30, 93 Frequency synthesizer RY 746 for HF receivers and transmitters. *P. Bikker.*
- 30, 137 1 kW all-solid-state HF communications transmitter RZ 500. *J. Mulder.*
- 30, 147 The professional communications receiver RO 150. *J.P.A. Aarts.*
- 30, 157 PARCS, automatic remote control system for HF radio stations. *J.P.A. Aarts.*

RADIO LINK EQUIPMENT

- 21, 109 Radio link carrier equipment for Saudi Arabia. *F.A.J.M. van Leeuwen.*
- 23, 123 A new approach in designing radio link equipment. *H.J. Kramer and A.A. Potjer.*
- 23, 130 Radio-relay networks for the Elbe and Weser shore-based radar systems. *H.J. Kramer.*
- 23, 149 Television tropospheric scatter link between France and North Africa. *A. Laurens.*
- 24, 25 Radio link for radar signals at Frankfurt airport. *D.G. Kerker.*
- 24, 89 The 4 GHz radio-relay repeater type 8SR 520. *H.J. Kramer.* (1) Description of the repeater.
- 24, 96 (2) Description of various units.
- 24, 162 A 70 MHz modulator-demodulator for wideband microwave links. *H.J. Kramer.*
- 25, 15 A 300 MHz radio relay system. *B. Nalbentian.*
- 26, 109 24-channel carrier telephone equipment type 8TR 311 for radio links. *L.H. Kuijsten.*
- 28, 1 The SR 600 series of transistorized radio-link equipment. *H.J. Kramer.*
- 29, 114 The SR 665 and SR 675 all-solid-state radio link equipment for the 6 and 7 GHz band. *J. Noordanus.*

RAILWAY TRAFFIC CONTROL

- 25, 125 Radio communication and centralized traffic control for a railway system. *W.Th. van Vlerken.*

RECEIVERS

- 23, 70 Communications receiver type 8RO 501. *F.L. van den Berg.*
- 25, 89 A transistorized channelized HF communication receiving system. *P.W.L. van Iterson.*
- 25, 107 ISB adapter for HF communication receiving system. *G.E. Smythe and P.W.L. van Iterson.*
- 27, 149 Frequency synthesizers for radio equipment. *J. Larcher and J. Noordanus.*
- 29, 89 An automatically tuned HF receiving system (RO 100 series). *P.W.L. van Iterson.*
- 30, 93 Frequency synthesizer RY 746 for HF receivers and transmitters. *P. Bikker.*
- 30, 147 The professional communications receiver RO 150. *J.P.A. Aarts.*
- 30, 157 PARCS, automatic remote control system for HF radio stations. *J.P.A. Aarts.*

REED RELAYS

- 27, 105 Reed switches for telephony switching. *T.M. Schuringa.*

REMOTE CONTROL AND SUPERVISION

- 21, 1 Supervision and control of television transmitters. *J.W.H. van Dijk.*
- 25, 2 Equipment for telesupervision systems. *A. Buckens and Y. Lebon.*
- 26, 118 Data transmission and processing system with remote supervision for a power distribution network. *F. Beignet.*
- 30, 157 PARCS, automatic remote control system for HF radio stations. *J.P.A. Aarts.*

REPEATERS

- 21, 183 Transistorized carrier telephone equipment, (1) Repeater equipment for deloaded cables. *C.P.L. van Doveren and J.F. Lansu.*
- 22, 105 Transistorized repeaters for a 120-channel carrier telephone system. *J.F. Lansu.*
- 23, 1 Negative impedance repeaters or negistors. *J.F. Brouwer.*
- 23, 179 Underground cases containing repeaters for multiquad carrier cables. *J. Metz, B.H. Wijnen and A. Timmer.*
- 24, 89 The 4 GHz radio-relay repeater type 8SR 520. *H.J. Kramer.* (1) Description of the repeater.
- 24, 96 (2) Description of various units.

RURAL TELEPHONY

- 25, 28 Short-haul and rural carrier telephone system type 7TR 001 with ten stackable channels. *J. Ducamus and A. Tarasoff.*
- 28, 89 Attenuation peaks on open-wire lines and the advantages of using phantom circuits. *A. Tarasoff and C. Ribeyre.*

TELEGRAPHY (see also data transmission)

- 21, 93 Type STR 123, 24-channel voice-frequency carrier telegraph system. *H. Nort and E. Goldstern.*
- 21, 114 Transistorized telegraph transmission systems. *H. Bouwman and M. Karlin.*
- 22, 173 The Irish telegraph network equipped with transistorized VF equipment. *H. Bouwman.*
- 24, 33 Magnetic tape store type MBO 51 for telegraph characters. *H. van Kampen.*
- 25, 43 Some electrical and mechanical aspects of a transistorized TOR. *D. H. Taylor.*
- 26, 75 Single-channel 5-unit TOR type 8AX 3509. *E. Goldstern and M.J. Hoek.*
- 27, 11 The ES series of automatic telegraph message switching centres. *J.Th. Appels and H.J. Spoon.*
- 27, 73 Telegraph and data carrier systems, types 3TR 1102 and 3TR 1103, with frequency-shift modulation. *H. Bouwman, G. Carrette and R. Deraemeaker.*
- 27, 124 Amplitude-modulated voice-frequency telegraph system type 3TR 1100. *H. Nort, S. de Vleminck and H. Bouwman.*
- 28, 44 Telex magnetic tape store type TMBO.
- 28, 125 The DS 714 computer system used as a message switcher. *F.J. Schramel.*
- 28, 135 The type DS 714 computer-based message and data switching system. *H. van Kampen.*
- 28, 175 The telegraph input-output multiplexer for the DS 714 message switching system. *H.J. Spoon.*
- 28, 184 Two new message switching centres for the SITA network. *E.A. Limberopoulos.*
- 29, 137 The DS 714 system employed in the Weather Message Switching Centre at Kansas City. *L.H. Slotboom.*
- 29, 188 The undetected-error probability of codes using two-coordinate parity check and of cyclical codes. *B.J. Beukelman.*

- 30, 1 Simplex TOR STB 75. *H. da Silva, E. Goldstern and J.A. Kok.*
- 30, 38 The DS 714 as a message switcher for the overseas telegraph traffic in the United Kingdom. *W.J.A. Prentice.*
- 30, 59 The DS 714 system for Telex. *H. van Kampen.*
- 30, 77 Digital telegraph and data transmission system type 3TR 1500. *S. de Vleminck and Y. Lebon.*
- 30, 173 Telegraph distortion introduced by TDM systems. *R. Bodart.*

TELEMETRY

- 25, 51 Telemetry system for the third stage of the ELDO launcher. *L.R. Bourgonjon.*
- 28, 148 A computer interface for the ELDO launcher inertial guidance system. *C.H. Luitwiel.*
- 30, 29 Progress in telemetry applications in the ELDO launcher programme. *L.R. Bourgonjon.*

TELEPHONY SWITCHING

- 21, 32 Optimum size of overflow traffic groups. *M.M. Jung.*
- 21, 145 The UR 49A automatic telephone system, (1) Main principles. *F. Westerveld.*
- 22, 1 The UD1 automatic telephone system for small public exchanges. *H.H. Brunnekreef.*
- 22, 14 Automatic telephone exchange for Medan, Northern Sumatra. *G.J. Hoolboom and J.L. de Kroes.*
- 22, 78 Requirements for electronic switching equipment in telecommuniation. *H.K.M. Grosser.*
- 22, 81 The core amplifier, a basic circuit for electronic switching equipment. *H. Kok.*
- 23, 42 Experimental electronic equipment for subscriber's fee metering. *M.J. Schmitz.*
- 23, 53 Electronic telephone exchanges. What we have done so far. *H.K.M. Grosser.*
- 23, 62 The switching network in an experimental electronic telephone exchange. *A. Heetman.*
- 23, 97 Extinction of a race at Warffum. *F. Westerveld.*
- 23, 186 Loss probability charts calculated with the formula of Engset. *M.M. Jung.*
- 26, 62 Type UH PABX's for 30 and 45 extensions. *W.H.J. Nicolai.*
- 26, 157 Economic aspects of multi-exchange telephone network planning. *J. de Boer.*
- 27, 55 Electronic telephone exchanges in field trials. *W. Smit.*
- 27, 105 Reed switches for telephony switching. *T.M. Schuringa.*
- 28, 120 International telephone switching centres in the Netherlands. *R.T. van der Schaaf.*
- 29, 55 The small EBX 15 private branch telephone exchange using mini-reed contacts. *H.P.J. Grubben and P. Veldkamp.*
- 29, 103 Calculation of the blocking probability at small private automatic branch exchanges having fully available connecting circuits and exchange line relay sets. *M.M. Jung.*
- 29, 165 Type UV telephone system for automatic trunk and international calls. *S.H. Liem, J.P. de Raaff and R.T. van der Schaaf.*
- 30, 157 Comparison of the traffic handling capacity of subscriber transpositions. *M.M. Jung and J. de Boer.*

TELEVISION TRANSMISSION

- 21, 1 Supervision and control of television transmitters. *J.W.H. van Dijk.*
- 23, 149 Television tropospheric scatter link between France and North Africa. *A. Laurens.*
- 29, 160 Measuring results of simultaneous television and telephony transmission over 12 MHz coaxial cable. *H.L. Bakker and L.F. Dert.*
- 30, 182 TV transmission equipment at Munich Olympics. *W. Stimpel.*

TELEX ON RADIO

25, 43 Some electrical and mechanical aspects of a transistorized TOR. *D.H. Taylor.*
26, 75 Single-channel 5-unit TOR type 8AX 3509. *E. Goldstern and M.J. Hoek.*
30, 1 Simplex TOR STB 75. *H. da Silva, E. Goldstern and J.A. Kok.*

TRAFFIC CALCULATIONS

21, 32 Optimum size of overflow traffic groups. *M.M. Jung.*
23, 186 Loss probability charts calculated with the formula of Engset. *M.M. Jung.*
26, 157 Economic aspects of multi-exchange telephone network planning. *J. de Boer.*
29, 103 Calculation of the blocking probability at small private automatic branch exchanges having fully available connecting circuits and exchange line relay sets. *M.M. Jung.*
30, 157 Comparison of the traffic handling capacity of subscriber transpositions. *M.M. Jung and J. de Boer.*

TRANSMISSION EQUIPMENT

see: Line transmission and Coaxial line transmission.

TRANSMITTERS

21, 1 Supervision and control of television transmitters. *J.H.W. van Dijk.*
23, 21 Multi-purpose continuously tunable 5 and 10 kW HF transmitters. *P.W.L. van Itersen, C.A. Snijders and H.A. Teunissen.*
24, 56 A 250/300 W HF channelized transmitter with full-range tuning. *P.W.L. van Itersen.*
24, 127 Test equipment for ISB and SSB transmitters. *P.W.L. van Itersen.*
26, 149 Thyristor-controlled high-voltage rectifier for high-power transmitters. *M.S.C. van de Berg, R.J. Dijkstra and C.G. van Ee.*
27, 149 Frequency synthesizers for radio equipment. *J. Larcher and J. Noordanus.*
28, 31 5 kW HF communication ISB transmitter with transistorized driving equipment series RZ 510. *P.W.L. van Itersen.*
28, 49 300 kW shortwave transmitter type FB 010. *Th. J. Nieland.*
29, 41 Automatically tuned HF transmitter systems for 10 and 30 kW. *P.W.L. van Itersen.*
30, 93 Frequency synthesizer RY 746 for HF receivers and transmitters. *P. Bikker.*
30, 137 1 kW all-solid-state HF communications transmitter RZ 500. *J. Mulder.*

UHF RADIO EQUIPMENT

25, 16 A 300 MHz radio-relay system. *B. Nalbentian.*
30, 87 UHF shipborne transceiver ERM 7000. *M. Etienne and J.P. Defeuilley.*

VHF MOBILE RADIO

21, 67 Tenth anniversary of the national mobilophone network in the Netherlands. *A.J. Duivenstijn.*
24, 1 A new service: a country-wide radio code paging system. *G.M. Uitermark.*
26, 25 Mobilophone bus traffic supervision and control system. *D. Muilwijk.*